S/126/61/012/004/018/021 E193/E383

AUTHORS: Kagan, A.S., Rass, T.G. and Gorazdovskiy, T.Ya.

TITLE: Some laws governing the formation of, so-called,

"friction austenite"

PERIODICAL: Fizika metallov i metallovedeniye, v. 12, no. 4, 1961, 617 - 619

Abrasion treatment of certain hardened steels brings about the formation of a surface layer, characterized by high hardness and by a structure which is difficult to reveal by metallographic methods. X-ray examination of layers of this type showed them to contain austenite in quantities greater than those in the unaffected part of the specimen - hence the term friction austenite. The object of the present investigation was to study the relationship between the quantity of friction austenite and the initial quantity of residual austenite in the steel (UX)5 (ShKh15), hardened by quenching from 850 °C. Specimens with a different residual austenite content were obtained by varying the conditions of sub-zero treatment of hardened material. The residual-austenite content was determined Card 1/4

S/126/61/012/004/018/021 E193/E383

Some laws governing

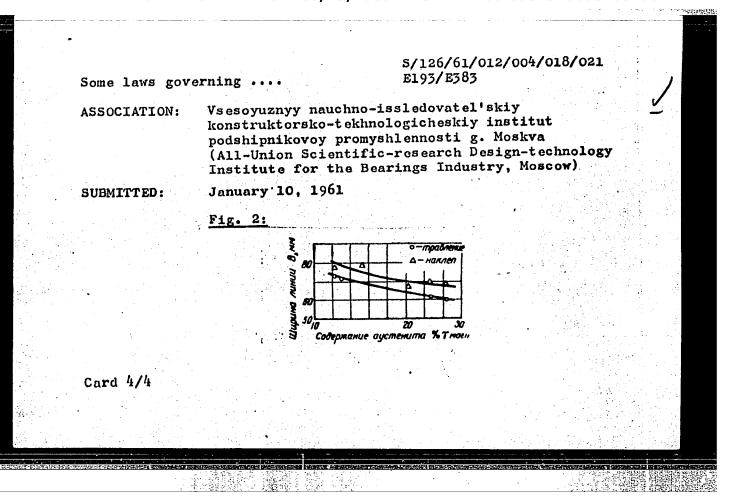
by the magnetic ballistic method, the quantity of the friction austenite being measured by X-ray diffraction. It was found that with increasing residual-austenite content the quantity of friction austenite decreased, its formation ceasing altogether at an (extrapolating) residual austenite content of 35%. If the theory is accepted that friction austenite is formed because of the friction-gnerated heat raising the temperature of the surface layer to the austenitic range, complete conversion of the resultant austenite to martensite heing prevented by the presence of distortions of the second type which retard the $\gamma \rightarrow \alpha$ transformation, the magnitude of the distortion of the second type in abraded surface layers should decrease with increasing proportion of the friction austenite. This postulate was confirmed experimentally by measuring the width of X-ray diffraction lines (311). The results are reproduced in Fig. 2, where the width of the reflections (B, mm) is plotted against the austenite content in hardened specimens (circles) and in hardened and abraded material (triangles). It will be seen that of hardened material decreases with increasing residual Card 2/4

S/126/61/012/004/018/021 E193/E383

Some laws governing ...

austenite content and that the increase in B due to abrasioninduced work-hardening is almost constant, irrespective of the residual-austenite content. It is true that both the initial B and its increase reflect not only distortions of the second type but also dispersion of the mosaic blocks formed as a result of both $\gamma \rightarrow \alpha$ transformation and work-hardening and that separation of these two effects is, in this case, rather difficult. It can, however, be assumed that the part of the total increase in B which is caused by work-hardening and phase-transformation does not depend on the residual-austenite content. Consequently, it is valid to infer from B the relationship between the magnitude of distortion of the second type and the residual-austenite content. The proportion of friction austenite in steel ShKh15 decreased also (with a corresponding increase in the proportion of martensite) after tempering at 160 °C. This effect can be attributed to stress relief and to the consequent decrease in the stability of There are 2 figures and 8 Soviet-bloc references

Card 3/4



GORAZDOVSKIY, T.Ya.; KAGAN, A.S.; RASS, T.G.

Quantitative determination of residual austenite using an apparatus with scintillation recording. Zav.lab. 28 no.5:597 '62.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut podshipnikovoy promyshlennosti.

(Austenite)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516020014-2"

GORAZDOVSKIY, Tadeush Yanushevich, kand. tekhn. nauk; MEL'NIKOVA, Zh.M., red.

[Nondestructive testing of metals; physical means of providing reliability] Nerazrushaiushchii kontrol' metallov; fizicheskie sredstva obespecheniia nadezhnosti. Moskva, Izd-vo "Znanie," 1964. 39 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.12) (MIRA 17:7)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000516020014-2

ACC NR: AF7007623

SOURCE CODE: UR/0386/67/005/003/0078/0082

AUTHOR: Gorazdovskiy, T. Ya.

ORG: none

TITLE: Hard radiation from solids failing in shear

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu.

Prilozheniye, v. 5, no. 3, 1967, 78-82

TOPIC TAGS: high pressure research, compressive stress, torsion stress, light emis-

sion, x ray emission, shear strength, material failure

ABSTRACT: The purpose of the investigation was to assess the damage produced in a solid by an appreciable shear deformation and in particular to analyze the radiation effects accompanying this damage, since earlier investigators paid no attention to these phenomena. The experiments were based on the hypothesis that failure in shear begins with formation of minute internal cavities and that the cavity-formation process, and hence the failure, can be countered by a hydrostatic compression of appreciable magnitude. To check on this proposition, a solid sample was subjected to combined axial and tangential forces in specially developed equipment, which is described in some detail. The tested substances were various nonexplosive polycrystalline dielectrics and semiconductors (marble, basalt, coal) both with native (undisturbed) electrics and in the form of tablets pressed from their powders. At a certain value of the shear deformation, an explosion occurred, consisting of a sound effect, scat-

Card 1/2

ud: none

ACC NR: AP7007623

tering of the finely dispersed material, and emission of blue-violet light and hard radiation with wavelength of about 0.5 Å (~25 kev) or even harder. It is concluded that the results reveal a hitherto uninvestigated process of failure under strong tangential stresses, resulting from adhesion of the tested material to the surfaces of the plungers and a result of prevention (by high hydrostatic pressure) of formation of internal cavities. Orig. art. has: 3 figures.

OTH REF: 003/ ORIG REF: OOL/ SUB CODE: 20/ SUBM DATE: 110ct66/ ATD PRESS: 5117

Card 2/2

ALESHIN, S.N., doktor sel'skokhosyaystvennykh nauk, prof. GORR, A.I., mladshiy nauchnyy setrudnik.

Determining adsorbed sodium in soils [with summary in English].

Inv. 75 The no.4:88-97 '60'. (MIRA 13:9)

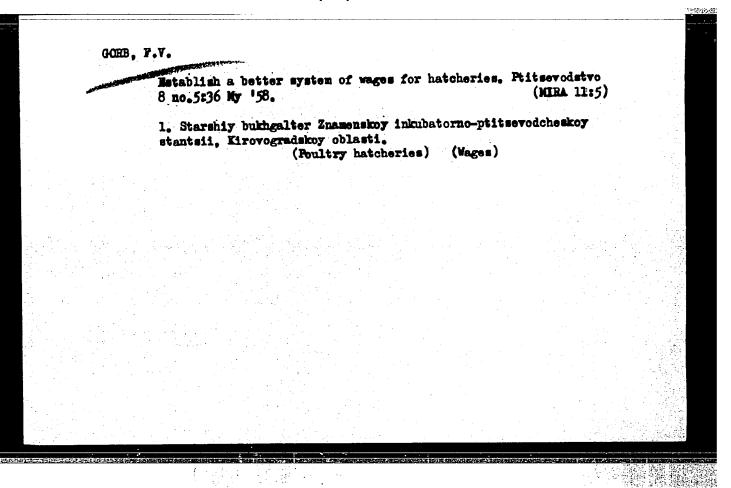
(Soils--Sodium content)

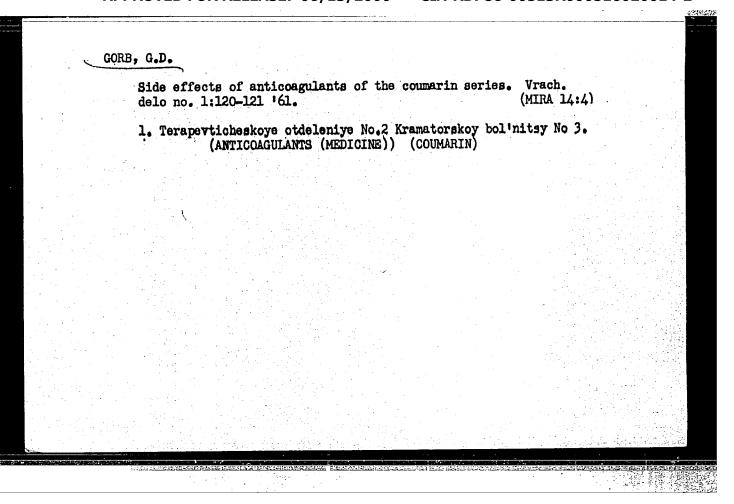
AMSHINSKIY, N.N.; MARIICH, I.V., MOLCHANOV, V.I.; ORLOVA, L.I.; GORB, A.M.; KUZNETSOV, Yu.A., nauchn. red.; SMORCHKOV, I.Ye., nauchn. red.; KRYZHANOVSKIY, V.A., ved.red.

[Accessories of the granitoids of the Altai and methods for studying them] Aktsessorii granitoidov Altaia i metodika ikh izucheniia. Moskva, Nedra, 1964. 175 p.

(MIRA 17:10)

1. Chlen-korrespondent AN SSSR (for Kuznetsov).

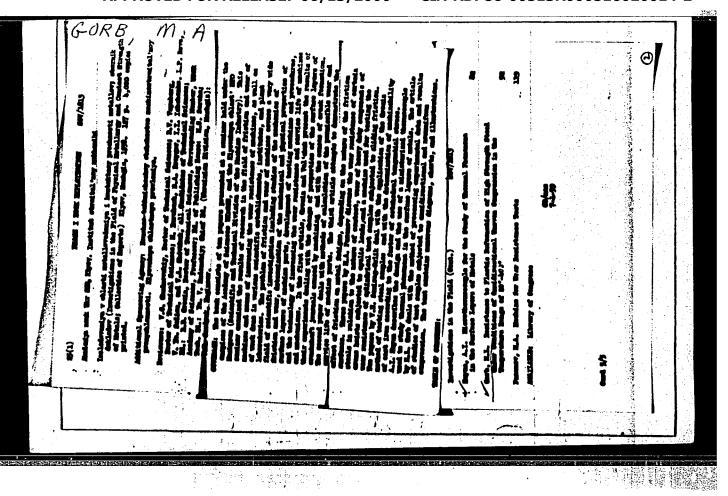




GORB, G.D.

Complications in treatments with the steroid hormones of the adrenal cortex. Sovet. med. 26 no.5:39-41 My *63 (MIRA 17:1)

1. Iz terapewticheskogo otdeleniya No.2 (zav. G.D. Gorb)
mediko-sanitarnoy chasti (glavnyy vrach - zasluzhennyy vrach
UkrSSR N.F. Belobrov) Novo-Kramatorskogo mashinostroitel nogo
zavoda.



APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516020014-2"

GROZIN, B.D.; SEMIROG-ORLIK, V.N.; GORB, M.L.

Blectron microscopic examination of steels subjected to plastic deformations. Shor.trud.Inst.stroi.msh.äh UESH no.22:5-24. 156.

(MIRA 10:5)

(Steel--Metallography)

SOV/124-58-1-1295

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 1, p 160 (USSR)

AUTHOR: Gorb, M. L.

TITLE:

On a Method for the Construction of Hardening Curves of High-strength Steels Relative to Nonuniform Triaxial Compression (O metodike postroyeniya krivykh uprochneniya vysokoprochnykh staley v usloviyakh vsestoronnego neravnomernogo szhatiya)

PERIODICAL: Sb. tr. In-ta stroit. Mekhan. AN UkrSSR, 1956, Nr 22, pp 35-55

ABSTRACT:

Examination of a method of testing specimens of heat-treated high-strength steel for compression in a steel compression jig. method permits a determination of the plastic-strain characteristics of these steels, as well as of the hardening thereof due to plastic strain. The author proposes formulas for the computation of the stress and strain intensities; these formulas are based on a theoretical investigation of the stresses and strains with due consideration of the friction forces acting on the end faces of the specimen. Certain special functions that enter into the formulas are tabulated; test results and their analysis for ShKhl5 steel are adduced. S. V. Boyarshinov

Card 1/1

GORB, 119. L.

124-1957-10-12270 D

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 10, p 148 (USSR)

AUTHOR:

Gorb, M. L.

TITLE:

The Resistance to Plastic Deformation of High-strength Steels Under Non-uniform Volumetric Compression at High Temperatures (Soprotivleniye plasticheskomu deformirovaniyu vysokoprochnykh staley v usloviyakh ob"yemnogo neravnomernogo sshatiya pri povyshennykh temperaturakh)

ABSTRACT:

Bibliographic entry of the Author's dissertation for the degree of Candidate of Technical Sciences, presented to the In-t stroit. mekh. AN USSR (Institute of Structural Mechanics, UkSSR Academy of Sciences), Kiyev, 1957.

ASSOCIATION: In-t stroit. mekhan. AN USSR (Institute of Structural Mechanics, UkSSR Academy of Sciences), Kiyev.

Card 1/1

GROZIN, B. D., VAL'CHUK, G. I., and GORB, M. L.

"Physical State of external Layers of Machine Parts" p. 32-40, in book Research in the Physics of Solids, Moscow, Izd-vo AN SSSR, 1957. 277 p. Ed. Bol'shanina, M. A. Tomsk Universitet, Siberskiy fiziko-tekhnicheskiy institut.

Wear tests were performed on the MI machine. Different steels studied: steel R18, steel R9, steel 15 ShKh 15, steel U8. There are 9 figures and 1 Soviet reference.

This collection of articles is meant for metallurgical physicists and for engineers of the metal-working industry. This book contains results of research in the field of failure and plastic deformation of materials, mainly of metals. Problems of cutting, abrasion, friction, and wear of solid materials (metals) are discussed.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516020014-2"

rts issue

SOV/123-59-12-46051

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 12, p 25 (USSR)

AUTHORS: Grozin, B.D., Val'chuk, G.I., Gorb, M.L.

TITLE: The Physical State of the Surface Layers of Machine Parts

PERIODICAL: V sb.: Issled. po fiz. tverdogo tela. Moscow, AS USSR, 1957, pp 32-40

The Institute of Construction Mechanics of the AS UkrSSR carried cut investigations on the complex application of research methods with the aid of electron microscopes, analysis of metal structure, X-rays and spectrum analysis in studying the mechanism of origination and distruction of the surface layer. Besides, different methods of the hardening technique have been worked out, which are applicable to the operating conditions of the machine parts. The investigations proved that the outer (active) metal layers are formed under the effect of all technological processes, both thermal and mechanical. The presence of structural stress concentrators is an important factor, lowering the durability of machine parts. Plastic deformation and heating of the outer metal layers as a result of friction, cause changes in the mechanical properties of various steel grades up to

Card 1/2

ABSTRACT:

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000516020014-2

The Physical State of the Surface Layers of Machine Parts

SOV/123-59-12-46051

different degrees and in different directions, depending on the composition of the steel grade, processing conditions and the heating temperature of the machine part during the operation process. Diagrams of the test results are given for metals of various grades. 9 figures.

P.V.M.

Card 2/2

Oper Ma Me Mas alon o	PEASE I BOOK EXPLOITATION SOT/5053 Veegoguanaya konferentsiya po treniyu i iznosu v mashinakh. 3d.	and AN printed.	Sponsoring Agency: Akademiya nauk 353R. Institut mashinovedeniya. Resp. Ed.: M. K. Ehrushchov, Frofessor; Eds. of Publishing Bouse: M. F. Klebanov, and S. L. Orpik; Tech. Ed.: T. V. Polyakova.		* 1) Metrogramate moory of intrication and Friction Bearings A. E. D'yachkov, Doctor of Technical Sciences, and an intricant Material (Chairwan of "Vingeday") 2) intrication and intricant Material (Chairwan of "Vingeday") 2) intrication Chemical Sciences) 30 Dry and Soundary Friction (Chairman Chemical Sciences) 31 Dry and Soundary Friction (Chairman Will, and I. V. Bergal'skiy, Doctor of Thenhical Sciences) betwoof Themical Sciences; and 5) Friction and Antifrict tion Materials (Chairman I. V. Kragel'skiy, Doctor of Technical Sciences, and M. M. Krahhhov, Doctor of Technical Sciences). Chairman of the general assembly (on the first and last day of the conference) was Academician A. A. Magmrwoor, L. Yu. Frunhanskiy, Condidate of Technical Sciences, was eci- entitic sepretary. The transactions of the conference were	Published in 3 volumes, of which the present volume is the platished in 3 volume, contains articles concerning the wear, and wear resistance of antifriction materials. Among the vebrue of antifriction materials. Among the topics covered are: modern developments in the theory and experimental science of war resistance of waterials, specific data on the wear resistance of waterials, materials, methods for increasing the wear resistance of carterium of materials, the effects of friction and wear on the structure of materials, the methods of the desiring of methods, on water ward of a series of materials on materials, are also wrider to materials and components under many different conditions, modern developments in antifriction materials, and so conditions to the feat. References accompany most series.	Gorb, M. L. E.Ray livestigation of the Structure of Street Darkened by Monuniform Volumetric Compression at 128 Mormal and Kleinfed Temperatures	Add Structural Transformations in Steal Due to Mear 136 Liptown, E. P. Cripton of Metals Under Ordinary Con- 144 Attions and the Action of Meral Loads	Ecstetatly, B. I., Topeling, and I. G. Mosovatly. Mecondary Structures on Friction Surfaces, and the Mear 152 of Metals	Pubarskir, I. M., H. P. Tahlykh, D. B. Voskoboynikov. O. P. Fodgernars, and M. L. Introrakix. Dynamics of Structure, Transforactions in the Case of Wear		The second secon
		A SAND	Pools Service	COVERA COVERA COC COC			See Horse	Local Strain	Kostet Second of Wet	Property of the state of the st	7	

GORB, M. L

3

PHASE I BOOK EXPLOITATION

SOV/5029

- Grozin, Boris Dmitriyevich, David Abramovich Draygor, Vsevolod Nikolayevich Semirog-Orlik, Mikhail Apollonovich Puzanov, Matvey L'vovich Gorb, Vil'yam Fedoseyevich Yankevich, Mariya Dmitriyevna Sinyavskaya, and Georgiy Iosifovich Val'chuk
- Povysheniye ekspluatatsionnoy nadezhnosti detaley mashin (Increasing the Operational Reliability of Machine Parts) Moscow, Mashgiz, 1960. 292 p. Errata slip inserted. 10,000 copies printed.
- Reviewer: V. S. Kramarov, Doctor of Technical Sciences, Professor; Ed.: D. A. Draygor, Doctor of Technical Sciences; Ed.: G. D. Tynyanyy; Tech. Ed.: M. S. Gornostaypol'skaya; Chief Ed., Mashgiz (Southern Dept.): V. K. Serdyuk, Engineer.
- PURPOSE: This book is intended for scientific workers and technical personnel in machine building.
- COVERAGE: The authors discuss new methods of investigating the physical state of machine-part surface layers, important for determining the reliability of parts in operation. Information is

Card 1/6

Increasing the Operational Reliability (Cont.)

sov/5029

presented on the influence of friction and wear conditions on fatigue limit and on the limited endurance of steel under the simultaneous action of friction forces and cyclic loads. Also discussed are: the effect of the impulse action of high-temperature compressed gases on the structure of the surface layers of metal, new machines for studying the wear resistance of metals under various friction conditions, and new processes for increasing the wear resistance of machine parts. The majority of integrations discussed were carried out by members of the Institute Mekhaniki AN UkrSSR (Institute of Mechanics, Academy of tut Mekhaniki AN UkrSSR). Ch. I and the Conclusion were written Sciences Ukrainian SSR). Ch. I and the Conclusion were written by B. D. Grozin, Corresponding Member, Academy of Sciences by B. D. Grozin, Corresponding Member, Academy of Sciences; UkrSSR, and D. A. Draygor, Doctor of Technical Sciences; UkrSSR, and D. A. Draygor, Doctor of Technical Sciences; UkrSSR, and D. A. Draygor, Doctor of Technical Sciences; UkrSSR, and D. A. Draygor, Doctor of Technical Sciences; UkrSSR, and D. A. Draygor, Doctor of Technical Sciences, wrote Section 1 of M. I. Gorb, Candidate of Technical Sciences, Ch. II; V. N. Semirog-Orlik, Candidate of Technical Sciences, Wrote Section 2 of Ch. II; S. B. Nizhnik and T. M. Golovinskaya, Engineers, wrote Section 3 of Ch. II; Section 4 of Ch. II was the work of V. F. Yankevich, Engineer. Ch. III. was written by Work of V. F. Yankevich, Engineer. Ch. III. was written by

Card 2/6-

Increasing the Operational Reliability (Cont.) SOV/5029 M. A. Puzanov, Candidate of Technical Sciences, wrote Sections 1-4 and 7 of Ch. IV; Section 5 of Ch. IV was written by B. D. Grozin and M. D. Sinyavskaya, Engineer; Section 6 of Ch. IV was the work of D. A. Draygor, and G. I. Val'chuk, Engineer. Sections 1 and 2 of Ch. V were written by M. D. Sinyavskaya; Section 3 of Ch. V was written by V. F. Yankevich. No personalities are mentioned. References accompany each chapter. There are 185 references: 175 Soviet, 3 German, 3 French, and 4 English. - TABLE OF CONTENTS: 3 Foreword Basic Factors of Durability and Operational Reliability 5 of Machine Parts 1. Formation of the surface layers of machine parts de-5 pending on the method of machining Effect of the [structural] state of surface layers of 10 machine parts on their operational reliability 16 Bibliography

GROZIN, B.D., otv.red.; DRAYGOR, D.A., zem.otv.red.; BADARASH, M.L., red.; ted.toma; KRAGKL'SKIY, I.V., red.; SERENSEN, S.V., red.; FAYNERMAN, I.D., red.; ZASLAVSKIY, S.S., red. Prinimali uchestiye: BRAUN, M.P., prof.; VAYNBERG, D.V., prof.; PETRENKO, I.P., kand.tekhn.nauk; SINYAVSKAYA, M.D., inzh.; SHEVCHUK, V.A., kand.tekhn.nauk; SEMIROG-ORLIK, V.N., kand.tekhn.nauk; YANKEVICH, V.F., inzh.; GORB, M.L., kand.tekhn.nauk; RAKHLINA, N.P., tekhn.red.

[Increasing the wear resistance and useful life of machinery in two volumes] Povyshenie imnosostoikosti i sroka slumby mashir v dvukh tomakh. Kiev, Izd-vo Akad.nauk USSR. Vol.1. 1960.
486 p. (MIRA 13:12)

1. Vsesoyuznoye nauchno-tekhnicheskoye obshchestvo mashinostroitel'noy promyshlennosti. Kiyevskoye oblastnoye pravleniye. (Mechanical wear) (Mechanical engineering)

25142

18 89,00

8/137/61/000/006/070/092 A005/A101

AUTHOR:

Gorb, M.L.

TITLE:

Roentgenostructural investigation of steel deformed by volumetric non-uniform compression at normal and elevated temperatures

PERIODICAL: Referativnyy zhurnal. Metallurgiya, no. 6, 1961, 32-33, abstract 6Zh216 ("Tr. 3-y Vses, konferentsii po treniyu i iznosu v mashinakh, v. 1", Morcow, AN SSSR, 1960, 128 - 136)

TEXT: From the width and intensity of 110 and 220 reflexes, obtained by recording on a MP (-50 M (URS-50 I) device in Fe-K, radiation, the author determined the range of coherent dispersion and stresses of the II and III order in У 8 (U8) and Ш X 15 (ShKh15) steels which were deformed by compression in rings by 0 - 30% at 20 - 600°C and tempered after cold deformation within the aforementioned temperature range. It was found that stresses of the II and III order decreased more intensively at higher deformation temperatures than at elevated tempering temperatures. It is shown that the range of coherent dispersion increases with higher tempering temperatures, although plastic deformation suppresses strongly this process. The values of stresses of II and III order revealed,

Card 1/2

25山2 8/137/61/000/006/070/092 A006/A101

Roentgenostructural investigation ...

are compared with characteristics of deformation resistance of the steels investigated; a linear correlation of the mentioned stresses $\tilde{\sigma}_1$ with stresses of II order is detected. There are 9 references.

A. Babareko

[Abstracter's note: Complete translation]

Card 2/2

(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	的建设等
L1358 S/081/62/000/017/089/102 B177/B186 AUTHORS: Gorb, M. L., Sinyavskaya, M. D. TITLE: Comparative tests for wear on polyamide resins subject to sliding friction against steel Bliding friction against steel Referativnyy zhurnal. Khimiya, no. 17, 1962, 545, abstract Newtonical: Referativnyy zhurnal. Whentengay y mashinostr. i priborostr.	
17P83 (In collection: Plastmansy 1961, 294 - 302) Kiyev, Gostekhizdat USSR, 1961, 294 - 302) Kiyev, Gostekhizdat USSR, 1961, 294 - 302) TEXT: To fix the limiting values of velocity and pressure at which polyamides can be used as construction materials in friction assemblies; polyamides can be used as construction materials in friction assemblies; polyamides can be used as construction materials in friction assemblies; polyamides can be used as conducted into the amount and intensity of relative wear research was conducted into the amount and intensity of relative wear research was conducted into the polyamides [168 (P68), and AK-7 (AK-7) (pure suffered by specimens of the polyamides [168 (P68), and AK-7 (AK-7) (pure suffered by specimens of the polyamides [168 (P68), and AK-7 (AK-7) (pure suffered by specimens of the polyamides [168 (P68), and AK-7 (AK-7) (pure suffered by specimens of the polyamides [168 (P68), and AK-7 (AK-7) (pure suffered by specimens of the polyamides [168 (P68), and AK-7 (AK-7) (pure suffered by specimens of the polyamides [168 (P68), and AK-7 (AK-7) (pure suffered by specimens of the polyamides [168 (P68), and AK-7 (AK-7) (pure suffered by specimens of the polyamides [168 (P68), and AK-7 (AK-7) (pure suffered by specimens of the polyamides [168 (P68), and AK-7 (AK-7) (pure suffered by specimens of the polyamides [168 (P68), and AK-7 (AK-7) (pure suffered by specimens of the polyamides [168 (P68), and AK-7 (AK-7) (pure suffered by specimens of the polyamides [168 (P68), and AK-7 (AK-7) (pure suffered by specimens of the polyamides [168 (P68), and AK-7 (AK-7) (pure suffered by specimens of the polyamides [168 (P68), and AK-7 (AK-7) (pure suffered by specimens of the polyamides [168 (P68), and AK-7 (AK-7) (pure suffered by specimens of the polyamides [168 (P68), and AK-7 (AK-7) (pure suffered by specimens of the polyamides [168 (P68), and AK-7 (AK-7) (pure suffered by specimens of the polyamides [168 (P68), and AK-7 (AK-7) (pure suffered by specimens of the polyamides [168 (P68), and AK-	1. (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)

S/081/62/000/017/089/102
B177/B186

intensity of wear. It is of advantage to introduce up to 10% of antifriction fillers into polyamide materials, as this reduces the coefficient of friction and the temperature to which the friction surfaces are heated. Large quantities of filler increase the wear, and at certain values of pressure and velocity they either sharply increase the intensity of wear or they lead to breakdown. Introducing lubricant onto the friction surface without cooling (drip lubrication with MC (MS) oil) reduces the quantity and intensity of wear, and also increases the limiting values of its parameters. Abundant lubrication enhances this effect. [Abstracter's note: Complete translation.]

Ц3769

15,8500

S/653/61/000/000/025/051 1007/1207

AUTHORS:

Jorb. M.L. and Sinyavskaya, M.D.

TITLE:

Comparative tests of wear in sliding friction between

polyamide resins and steel

SOURCE:

Plastmassy v mashinostroyenii i priborostroyenii. Pervaya resp. nauch.-tekh. konfer. po vopr. prim. plastmass v mashinostr. i priborostr., Kiev, 1959.

Kicv, Gostekhizdat, 1961, 294-302

TEXT: This is a report on investigations carried out to study the suitable use of plastics (in particular polyamides) as structural components in friction assemblies. Particular attention was paid to the problem of intensity and amount of wear as a function of velocity and pressure during friction on steel with and without lubrication, and tests were conducted to establish the maximum values

Card 1/2

s/653/61/000/000/025/051 1007/1207

Comparative tests of wear in ...

of velocity and pressure for the case of any friction. Test stand and methods are amply described and illustrated. The specimens were tested on compression at varying temperatures, and on wear resistance with and without lubrication. As was found, simultaneous increase in velocity and pressure on sliding dry-friction are liable to increase wear. The addition of a certain amount (maximum 10%) of antifriction fillers to the plastics is suitable as it reduces the friction coefficient and the temperature in the friction assembly. The use of drip lubrication (without) cooling markedly reduces intensity and amount of wear. There are 7 figures.

Card 2/2

ACCESSION NR: APLO46154

S/0198/64/010/005/0547/0551

AUTHOR: Gorb, M. L. (Kiev)

TITLE: On the method of testing metals at high pressure and high temperature

SOURCE: Pry*kladna mekhanika, v. 10, no. 5, 1964, 547-551

TOPIC TAGS: metal testing, high pressure, high temperature, pressure chamber,

ABSTRACT: The construction of a new variant of a conical, cylindrical, highpressure chamber is described. The weakest part, a cylindrical plunger, is
supported in the chamber by the chamber itself, without any additional rings.
A method based on the principle of a natural thermocouple is proposed for measuring the temperature in the high-pressure chamber. Orig. art. has: 3 figures and 1

ASSOCIATION: Instystut mekhanikys AN URSR (Mechanics Institute, AN 'URSR)

SUBMITTED: 20Nov63

SUB CODE: MM Cord 1/1

NO REF SOV: 004

ENCL: 00 OTHER: 006

VAL'CHUK, G.I. [Val'chuk, H.I.] CORB, M.L. [Herb, M.L.]; MACHUGOVSKIY,
B.M. [Nachuhovs'kyi, B.M.]

Self-hardening plastics as substitute for antifriction metal compounds in the mamufacture of food machinery. Khar, prom. no.3:42-45 Jl-3 '65.

(MIRA 18:9)

PELEPELIN, V.M. (Kiyev); GORB, M.L. (Kiyev)

Experimental investigation of deformations of system of rings in testing specimens under three-dimensional uneven pressure conditions. Prikl. mekh. 1 no.11:81-88 '65.

(MIRA 19:1)

1. Institut mekhaniki AN UkrSSR. Submitted April 22, 1965.

L. 13827...66 EWI(d)/EMI(m)/EWP(w)/FWP(v)/T_2/EMP(t)/EWP(k)/EWP(h)/EMP(b)/EMP(1)/
ACC NR: AP6001246 ETC(m) JD/WW/HW/EM SOURCE CODE: UR/0198/65/001/011/0081/0088

AUTHORS: Pelepelin, V. M. (Kiev); Gorb, M. L. (Kiev)

ORG: Institute of Machanics, AN UkrSSR (Institut mekhaniki, AN UkrSSR)

TITLE: Experimental investigation of deformations in a system of bands in testing systems of specimens in conditions of global nonuniform compression

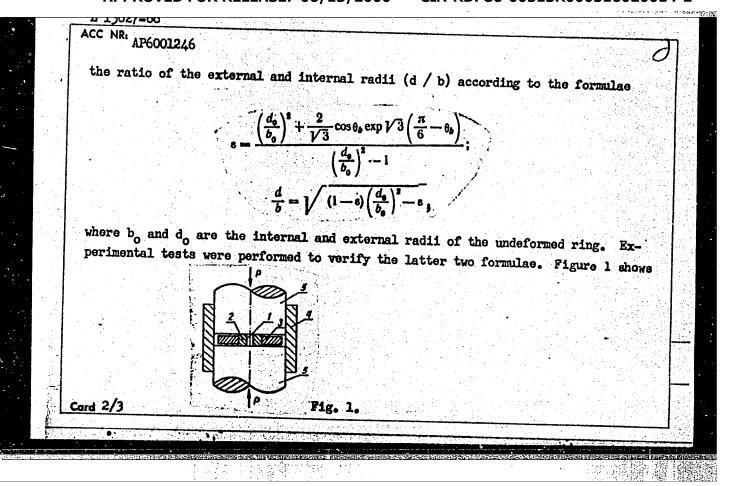
SOURCE: Prikladnaya mekhanika, v. 1, no. 11, 1965, 81-88

TOPIC TAGS: stress measurement, stress analysis, strain measurement, stretching. Plastic deformation, are affect atructure.

ABSTRACT: Experiments were performed for the evaluation of the stressed and deformed state of bracing band systems in global nonuniform compression tests. Internal pressures required for plastic deformation of a ring are computed as

$$\rho_b = \frac{2\sigma_0}{\sqrt{3}}\sin\left(\frac{\pi}{6} - \theta_b\right).$$

This formula is used by A. Nadai (Plastichnost' i razrusheniye tverdikh tel, IL, 1954). Here, θ_b characterizes the deformed state of the external ring during the loading process, and σ_0 is the stress corresponding to the applied degree of deformation of the ring material. Axial deformation \mathcal{E} is related to θ_b and to Cord 1/3



L 13827-66 ACC NR: AP6001246

> the experimental set-up. The specimen 1 is set in the ring systems 2 and 3. The test is conducted in chamber 4 which channels simultaneously the compression punches 5. Deformation is constrained, so that it is possible to determine the relationship of axial deformation of the specimen and radial deformation of points of the external lower surface of the internal ring. Measurement parameters and experimental control are described. Radial deformation of points of the compression surfaces of the rings was found to be

and radial deformation of the inner ring along its external diameter is

$$e_d = \sqrt{1 + \left(\frac{\varepsilon}{1-\varepsilon}\right)\left(\frac{b_a}{d_o}\right)^2} - 1.$$

Additional deformation relationships are plotted. Test results were found to be in fair agreement with published reports. Orig. art. has: 6 figures and 5 equa-

SUB CODE: 20, 13/ SUBM DATE: 22Apr65/ ORIG REF: 003/ OTH REF: 001

GORB, M.L. (Kiyev); PELEPELIN, V.M. (Kiyev); CHERNYAK, N.I. (Kiyev)

Determining the radial pressure of a specimen under conditions of a nonuniform volumetric pressure. Prikl. mekh. 1 no.10: 87-92 '65. (MIRA 18:12)

1. Institut mekhaniki AN UkrSSR. Submitted March 29, 1965.

T 0000/-0/ 1347/131/EWP(W)/EWP(\$)/ETT LIP(c) JD/DJ	
ACC NR: AP6027489 (A) SOURCE CODE; UR/0418/66/000/003/0063/0066	7: 3
AUTHOR: Bezruchko, I. V. (Engineer); Golovinskaya, T. M. (Engineer); Gorb, M. L. (Engineer); Panchenko, N. P. (Engineer); Chernenko, V. S. (Engineer); Chernyak, N. I. (Engineer)	Decide a desidence de la constante de la const
ORG: None TITLE: Contact fatigue strength of ShKhl5 bearing steel SOURCE: Tekhnologiya i organizatsiya proizvodstva, no. 3, 1966, 63-66	
TOPIC TAGS: fatigue test, fatigue strength, steel microstructure, x-ray analysis, ABSTRACT: The authors describe a study carried out at the Institute of Mechanics AN UkrSSR in cooperation with the First State Bearing Plant on the contact fatigue	
strength of Shkhl5 bearing steel. The basic criterion in evaluating polishing conditions is taken as the physical state of the layer structure and depth of structural variation. Mechanical methods for testing contact fatigue strength and for measuring microhardness were used together with metallophysical methods and microstructural and	
after finish machining. The following heat treatment procedures were used: quenching at 850°C in 40-50°C oil, cold processing with cooling to 2000 and to 2000.	
160°C. These conditions give specimens with a hardness of HRC 62-64. After heat treatment the specimens were polished under various conditions. The specimens were divided into three groups according to the amount of metal removed: 0.1 mm for the first group; 0.15 mm for the second and 0.25 mm for the third. Depth of structural	
Card 1/2 UDC: 620,17:669,14	

עם=למלמת יד

ACC NR: AP6027489

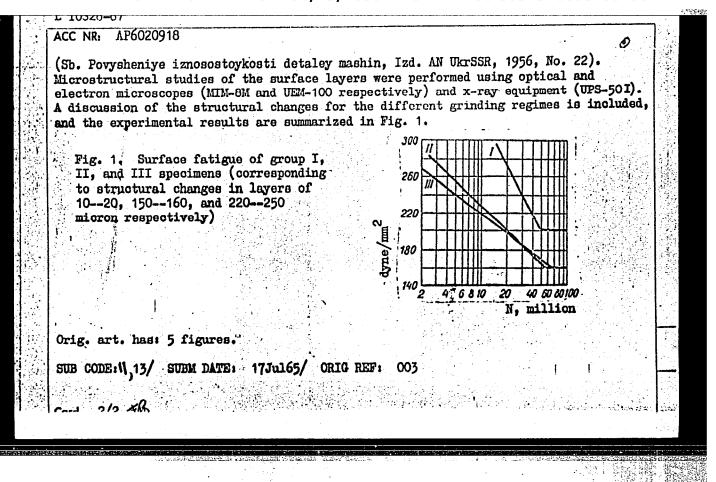
variation after polishing for the various groups is the following: 10-30 u for the first group, 150-170 μ for the second and 220-250 μ for the third. Microstructural analysis for the first group shows that structural variation is not significant. The microhardness of these specimens is 950-1000 kg/mm2. X-ray analysis for this group of specimens shows that variations due to polishing and honing are localized in a layer 10-30 μ thick. Slight deformation and elongation of the crystal lattice of the α phase is observed in this layer. Depth of variation for the second group of specimens is 150-170 µ. This is substantiated by microhardness measurement data and microstructural and x-ray analysis. Depth of variation for the third group reaches 250 µ, these variations being similar to those of the second group. The unetched surfaces of the specimens in the first and second groups examined under an electron microscope show scaly tearing and deep scratches caused by polishing. After etching, secondary solid solutions are observed on individual surfaces oriented in the direction of polishing. A graph is given showing the contact fatigue strength of all three groups. The results show that contact fatigue limit for the second and third groups is identical (150-160 kg/mm²), differing from the first group where maximum contact strength is 200 kg/mm². Pit depth for the first group under staining does not exceed 300 μ, reaching 600-700 µ for the second and third groups. All groups show large-scale microfocal scaling after testing observed on the electron microscope. The authors recommend that polishing procedures be selected which have the minimum effect on the structural variation of the surface layer of ShKhl5 steel. Orig. art. has: 4 figures.

SUB CODE: 11/ SUBM DATE: None

Card 2/2 ///

EWP(k)/EWT(m)/EWP(w)/EWP(t)/EII IJP(C) UR/0369/66/002/002/0204/0208 10326-67 SOURCE CODE: ACC NRi AP6020918 AUTHORS: Bezruchko, I. V.; Golovinskaya, T. M.; Gorb, M. L.; Panchenko, N. P.; Chernenko, V. S.; Chernyak, N. I. ORG: Mechanics Institute of the AN UkrSSR, Kiev (Institut mekhaniki AN UkrSSR); First GPZ, Moscow (Pervyy GPZ) TITLE: Effects of the physical condition of the surface layer, formed during grinding, on the contact wear resistance of steel ShKh15 SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 2, no. 2, 1966, 204-208 TOPIC TAGS: surface fatigue, surface property, metal friction, steel property, grinding wheel, electron microscope, steel, x-ray equipment/ ShKh15 steel, EB60SM2K grinding wheel, E46SM2K grinding wheel, MIM-8M microscope, UEM-100 electron microscope UPS-50I x-ray equipment ABSTRACT: The effects of the structure and depth of structural gradients on the surface fatigue of ShKh15\steel were investigated. Thirty-five millimeter diameter 10-mm thick disc-shaped specimens were heat-treated and ground using wheel EB60SLIZK and finish-ground with wheel E46SM2K. Three grinding regimes (0.005 mm/rev, 0.15 mm and 0.25 mm) were used to produce structural changes in layers of 10--20, 150--160, and 220--250 micron respectively. After lapping to an 11--12 class finish, surface fatigue tests were performed at 1750 rpm using methods described by M. A. Puzanov

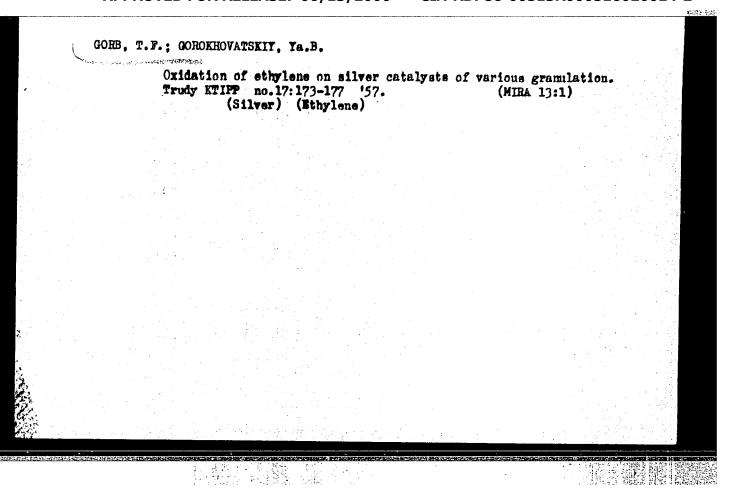
APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516020014-2"



DOVGYALLO, Ye.N.: GORB, N.M.

Relation between visibility and the cloud base. Trudy CGO no. 153:89-92 '64. (MIRA 17:9)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516020014-2"



(Kieselguhr) (Sugar manufacture)	Investigation of the suitability of Ukrainian kieselguhrs to the needs of the sugar industry. Trudy KTIPP no.21:23-30 59. (MIRA 14:1)
	(Kieselguhr) (Sugar manufacture)

80662

S/153/60/003/02/10/034 B011/B003

5,3200

AUTHOR:

Gorb, T. F.

TITLE:

Investigation of the Part Played by Macrokinetic Factors

by Measuring the Catalyst Temperature

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i

khimicheskaya tekhnologiya, 1960, Vol. 3, No. 2,

pp. 272-275

TEXT: The author studied the oxidation of ethylene on a silver catalyst. The important heating of the catalyst surface occurring in the extreme diffusion region served to clarify the influence exerted by macrofactors on the course of the catalytic process. As shown in Fig. 1 the investigation was made in a continuously working apparatus. A tablet of active silver pressed under a pressure of 300 atm was used as a catalyst. Openings for thermocouples were bored into the tablet (Figs. 2,3). A 5%-ethylene-air mixture passed through at a rate of 32 cm²/min was employed for the investigation. A silver tablet with a diameter of 10 mm

Card 1/3

W

30662

Investigation of the Part Played by Macrokinetic Factors by Measuring the Catalyst Temperature S/153/60/003/02/10/034 B011/B003

with one hole and another with a diameter of 13 mm and three holes were used. The temperature distribution in the tablet of the catalyst is represented in Table 2. The experimental results obtained by a tablet with a diameter of 13 mm pressed under high pressure showed that the diffusion inhibition occurs earlier and more strongly than in smaller catalyst granules pressed at lower pressure (Ref. 1). The author determined that the temperature in the total mass of the tablet is equal in the 13-mm tablet between 230 and 2900, but much higher than the temperature of the passing gas. This is indicative of the fact that oxidation takes place close to the extreme diffusion region. Furthermore, the author stated that the thermocouple which touches the catalyst surface with its soldered joint does not show its true temperature in exothermic catalytic reactions in the diffusion region but rather the temperature mean between the surface temperature of the catalyst and the passing gas. There are 3 figures, 2 tables, and 1 Soviet reference.

Card 2/3

30662

Investigation of the Part Played by Macrokinetic Factors by Measuring the Catalyst Temperature

S/153/60/003/02/10/034

B011/B003

ASSOCIATION: Institut fizioheskoy khimii AN UkrSSR (Institute of Physical Chemistry of the Academy of Sciences of the UkrSSR). Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti (Kiyev Technological Institute of Food Industry). Kafedra obshchey i neorganicheskoy khimii

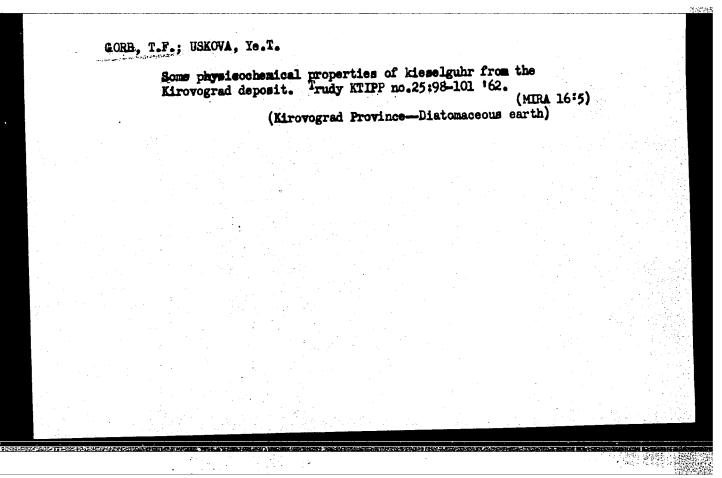
(Chair of General and Inorganic Chemistry)

SUBMITTED:

March 31, 1958

Card 3/3

CIA-RDP86-00513R000516020014-2" APPROVED FOR RELEASE: 06/13/2000

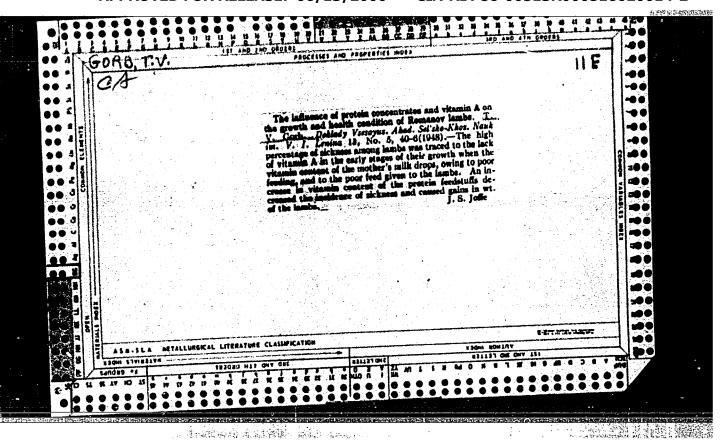


GORB, T. F.; POLYACHENKO, M. M.; USKOVA, Ye. T.; ARTEMENKO, M. V.

Changes in some physicochemical properties of syrup occurring during filtration through kieselguhr. Izv.vys.ucheb.zav.; (MIRA 17:5) pishch.tekh. no. 2:60-61 164.

1. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti, kafedra obshchey i neorganicheskiy khimii.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516020014-2"



GORB, T. V., PROF

**The Significance of Vitamin A and Vitamin Therapy in Sheep Breeding, Prof T. V. Gorb, Dr of Agr Soi; Z. P. Semenchenko, Aspirant, All-Union Inst Animal Emshandry,

5 pp

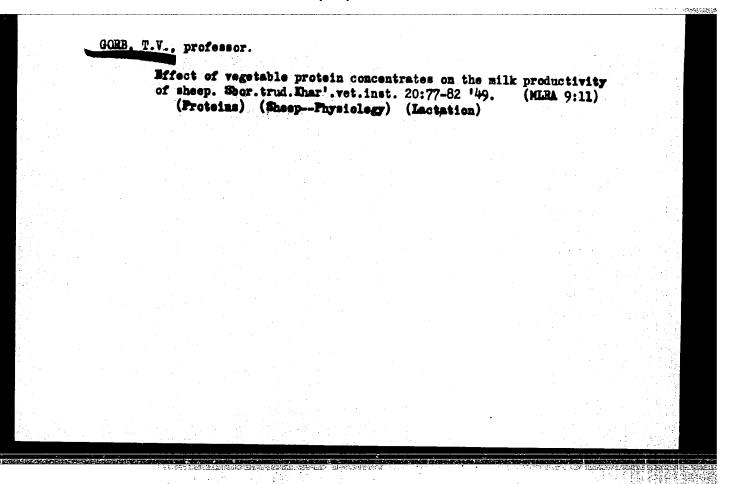
Vol 25

"Veter", No 1, p. 29

Tests to establish effect of vitamins on sheep obtained following results; lack of vitamin A in feed will lower productivity of sheep; lack of this vitamin has adverse effects on organic function of sheep; lambs, observed to have become sick as a result of eating feed off ground, were cured by addition of vitamin A to this feed.

61760

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516020014-2"



- 1. GORB, T. V., Prof.: PLYUSHCH, H. G.: RCS', I. F.
- 2. USSR (600)
- 4. Vitamins
- 7. Influence of vitamins A, D, and C on the growth and state of health of sucking pigs. Sov. zootekh. 7 no. 12, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

GORB. T. V., Prof.; GRISHPAK, V. F.

Ukraine - Karakul Sheep

Feeding and maintenance of karakul ewes in the Ukraine. Kar. i zver. 6, No. 1, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

GORB, T.V., professor, doktor sel'skokhosyaystvennykh nauk.

Prevention and treatment of vitamin A deficiency in pregnant ewes.

Shor, trud. Khar'. vet. inst. 22:337-344 '54. (MERA 9:12)

1. Kafedra kormleniya sel'skokhosyaystvennykh shivotnykh Khar'kovskogo veterinarnogo instituta.

(Deficiency diseases) (Sheep—Diseases) (Vitamins—A)

GORB, T.V., professor; PLYUSHCH, M.G., dotsent; SARZHEVSKIY, M.V., kardidat veterinarnykh nauk.

Effect of various corn rations on the bacon and lard production of swine. Veterinariia 32 no.10:74-76 0 155. (MIRA 8:12)

1. Khar kovskiy veterinarnyy institut. (CORN (MAIZE) (SWING-FEEDING AND FEEDING STUPPS)

WSSR/Ferm Animals. Swino

Q-3

Abs Jour : Ref Zhur - Biol., No 8, 1958, No 35701

Author : Gorb T.V. Bolousov B.M.

Inst : Not Givon

Title : The Influence of Gebelt on the Growth of Young Figs (Vliyaniya kobelte ne rost perosyet)

Orig Pub : Sots. tvcrinnitstvo, 1957, No 4, 57

Abstract: Three experiments were carried out - in the fell, spring end beginning of summer. In two experiments, all young pigs were given 25 mg. of iron sulfate and 10 mg. of copper sulfate a day. In addition of this, the experimental group was receiving 3 mg. of cobalt sulfate a day (0.5 mg. per 1 kg. of live weight). In the third experiment, the central group was not given trace elements, and the experimental group was receiving cobalt sulfate. In all experiments, the young pigs were administered trace elements from the 10th day to 2 menths. All pigs receiving cobalt sulfate had a higher weening weight by 9.7, 22.1, and 16.1%, as compared with the

USSR/Form Animals. Swino

Abs Jour : Rof Zhur - Biol., No 8, 1958, No 35701 Chief College and Barathy - Brichery

Philippa service than a con-

pigs of the control group. The difference in weight was most noticeable in the second half of the experiment. In experimental pigs, in the first two experiments, a semewhat higher content of Hb in the blood was observed. The Marketta gard Taxanga, of California and Com-

Buttery the tradenting a page to any one (it) and therefore

Therefore the Therefore a region to the control of the advantage of the control o

ven in considerable gaster in the sound one is along

Card : 2/2

White or a to know the Carlo Danese.

a little for interpretable to been accounted to the

CIA-RDP86-00513R000516020014-2" **APPROVED FOR RELEASE: 06/13/2000**

USSR/Form Animals - General Problems.

6-1

Abs Jour

: Ref Zhur - Biol., No 18, 1958, 33265

Author

: Gorb, T.V., Klitsenko, S.T.

Inst Title

Nutritional Values of Various Kinds of Corn and of Their

Hybrids.

Orig Pub

: Kulturuza, 1957, No 9, 43-45

Abstract

: At the Khar'kov Zootechnical Institute, the chemical composition and nutritional values of various kinds of corn were investigated. It was established that corn hyprids contain 55 percent more proteins, 72 percent more Pats, and almost 1 times more ashes than Khar'kov white toothlike corn. As compared with the latter, the former possesses a 33 percent higher crop capacity and 49 percent more reed

Card 1/1

CIA-RDP86-00513R000516020014-2 APPROVED FOR MELEASE: 06/13/2000

CATEGORY

: Jultivated Plants - Forage Crops

AB3. JCUR.

: RZhBiol., No. 14,1953, No. 63464

AUTHOR :

INST.

: Jorb, T. V., Vlitsenko, S. T. Kharkov Zootechnical Institute

TITLE

: Yields, Chemical Composition and Food Value of the Kernels and Cobs of Different Varieties of Corn.

ORIG. PUB. : Sb. tr. Khar'kovak. in-t, 1957, 9, 57-63

ABSTRACT

: According to the date for 1956, the first place in regard to the yield (of ears) was taken by Partizanka variety (100.7 c/ha), the second by hybrid VIR-42 (93.20 c), then Khar'kovskaya 23 (77.10 c) and Khar'kovskaya belaya'zubovidnaya (73.90 c/ha). The greatest amount of dry matter (6027 kg/ha) was secured from the crop of hybrid corn VIR-42. Hybrid corn also took the first place in the content of digestible protein and amount of food units. -- Ye. A.

Okorokova

Card: 1/1

(MIRA 13:2)

GORB, T.V., doktor sel'skokhos.nauk; MAKSAKOV, V.Ya.

Effective compounds for breaking down oxalic acid in the ensilage of augar best tops. Dokl.Akad.sel'khos.24 no.10:15-18

159.

1. Khar'kovskiy sootekhnicheskiy institut. Predstavlena akademikom N.D.Potemkinym.
(Ozalic acid) (Ensilage) (Sugar beets)

GORB, T.V. [Horb, T.V.]; doktor sel'skokhcz.nauk; TERESHCHENKO, F.K.,
kand.biolog.nauk; BOGAYE/SKIY, O.T. [Bohaievs'kyi, O.T.], kand.
veterin.nauk; POTYEMKIN, M.D. [Pot'omkin, M.D.] akademik;
KNIGA, M.I. [Knyha, M.I.]; POPOV, O.Ya., kand.sel'skokhoz.nauk;
KHMELIK, G.G. [Hmelyk, H.H.], kand.sel'skokhoz.nauk; SHRAM, I.P.,
kand.sel'skokhoz.nauk [deceased]; KOPIL, A.M., kand.sel'skokhoz.
nauk; TSELYUTIN, V.K., kand.sel'skokhoz.nauk; BOZHKO, P.Yu., doktor
sel'skokhoz.nauk; KROMIN, S.S., kand.sel'skokhoz.nauk; ZEMLYANSKIY,
V.M. [Zemlians'kyi, V.M.], kand.sel'skokhoz.nauk; BORISHINO, A.M.
[Borysenko, A.M.], kand.biolog.nauk; ZAHARENKO, V.B., kand.biolog.
nauk; SMIRNOV, I.V. [Smyrnov, I.V.], kand.biolog.nauk; KHRABUSTOVSKIY,
I.F. [Khrabustovs'kyi, I.F.], kand.biolog.nauk; TORSTYANETSKAYA, M.N.,
[Trostianets'ka, M.N.], assistent; ALESHKO, P.I., inzh.; VASIL'YEV,
Vasyl'iev, O.F., kand.tekhn.nauk; BUGAYENKO, I.I. [Buhaienko, I.I.],
starshiy prepodavatel'; TREKHTOMIROVA, O.O., kand.ekonom.nauk;
BUTKO, S.D., kand.ekonom.nauk; TELESHIK, K.G. [Teleshyk, K.H.],
doktor ekonom.nauk; YAROSHENKO, V.D., kand.ekonom.nauk; LISIY, I.Y.
[Lysyi, I.I.], red.; YEROSHENKO, T.G. [Teroshenko, T.H.], tekhn.red.

[Handbook for sootechnicians] Dovidnyk sootekhnika. 2., dopovnene i pereroblene vyd. Kyiv, Dersh.vyd-vo sil's kohospodars koi lit-ry URSR, 1960. 728 p. (MIRA 15:2)

1. Vsesoyuznaya akademiya sel'skokhosyaystvennykh nauk imeni V.I. Lenina (for Potemkin). 2. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhosyaystvennykh nauk imeni V.I.Lenina (for Kniga). (Stock and stock breeding)

GORB, T.F.

Investigating the role of macrokinetic factors by measuring the temperature of the catalyst. Izv.vys.ucheb.zav.;khim. ikhim.tekh. 3 no.2:272-275 60. (MIRA 14:6)

1. Institut fizicheskoy khimii AN USSR i Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti, kafedra obshchey i neorganicheskoy khimii.

(Catalysis)

GORB, T.V.; MAKSAKOV, V.Ya.

Effect of oxalate-rich rations on the mineral metabolism and some physiological indices in ruminants. Nauch. dokl. vys. shkoly; biol. nauki no.4:53-58 '61. (MTRA 14:11)

1. Rekomendovana kafedroy kormleniya sel'skokhozyaystvennykh zhivotnykh Khar'kovskogo zootekhnicheskogo instituta.
(OXALIC ACID_PHYSIOLOGICAL EFFECT)
(MINERAL METABOLISM) (CATTLE_PHYSIOLOGY)

GORB, T. V. (Doctor of Agricultural Sciences) and MAKSAKOV, V. Ya. (Candidate of Agricultural Sciences, Khar'kov Zooveterinary Institute).

"Effect of sugar beet tops upon the animal organism..."

Veterinariya, vol. 39, no. 2, February 1962 pp. 66

USSR/Meadow Cultivation.

L

Abs Jour: Ref Zhur-Biol., No 9, 1958, 39133.

Author : Gorb. V.D.

Inst & Scientific Research Institute of Agriculture and

Animal Husbandry of Western Rayons of UkrSSR.

Title : Views on the Introduction Into Cultivation of

Wild-Growing Perennial Feed Grasses in the L'vov

Oblast.

Orig Pub: Inform. byul. Nauk.-dosl. in-t zemlerobstva i

tvarinnitstva zakhidn. rayoniv UkrSSR, 1957, vyp.

2, 30-33.

Abstract: A computation of seed stocks of wild growing perennial

grasses which can be utilized either for a direct conversion into neadows or for reproduction and selection work in the L'vov oblast is given in this

Card : 1/2

APPROXFD.EQR RELEASE: 06/13/2000 CIA-RDP86-00513R000516020014-2

Abs Jour: Ref Zhur-Biol., No 9, 1958, 39133.

paper. Seeds of wild grasses sometimes germinate better in the fields than cultivated sorts and their productivity is higher, as a rule, especially in the second year. The contents in raw albumin and the feed values of cultivated and wild growing grasses are identical. 5. P. Gal'perina.

Card : 2/2

	Work of a collective farm ogronomist. Zemledelie 7 Ny 159.	no.5:34-87 (MIR: 12:7)
	1. Kolkhoz imeni Jonina, Novo-Moskovskogo rayona, Da oblasti.	wonderorservy was
	(Collective farms)	

MOROZOV, N.G.; uchitel' (selo Klyuchevki, Chelyabinskoy oblasti);
PRUDNIKOV, S., uchitel'; GORB, Ye.V.; SIDOREHKO, B.P., uchitel';
LAZAREV, V.; SVIDUNOVICH, A., uchitel'; HUBIN, M., metodist;
VASIL'YEV, Ye.T., uchitel'

Letters to the editors. Geog. v shkole 23 no. 6:67-69 N-D 160. (MIRA 13:11)

1. 4-ya shkola shkoly g. Nevelya (for Prudnikov). 2. Direktor 16-y shkoly g. Vinnitsy (for Gorb). 3. 81-ya shkola g. Baku (for Sidorenko). 4. 11-ya shkola g. Tyumeni (for Lazarev). 5. Velemichskaya shkola Brestskoy oblasti (for Svidunovich). 6. Vinnitskiy oblastnoy institut usovershenstvovaniya vrachey (for Rubin). 7. Sanitorno-lesnaya shkola poselka Klyuchi, Kamchatskoy oblasti (for Vasil'yev). (Geography)

GORBACEV, S.

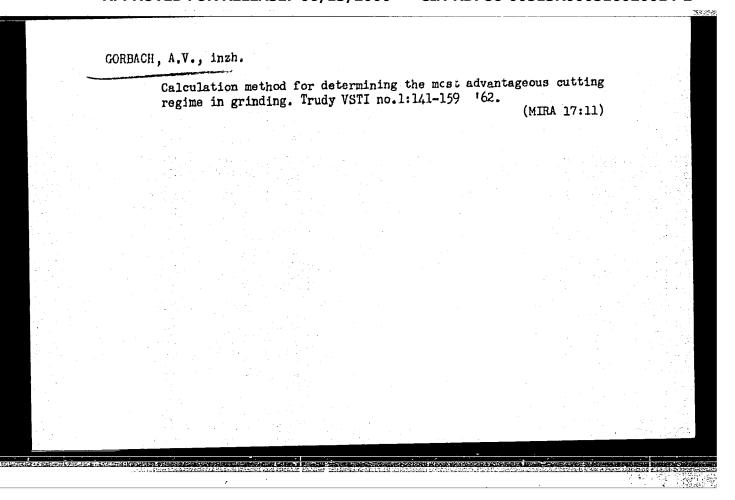
Formulation of the problem of calculation of concentration polarization and chemical polarization in M. Smutek's study. p. 615

CHEMICKE LISTY (Ceskoslovenska akademic ved. Ceskaslovensak spolecnost chemicks) Praha, Czechoslovakia. Vol. 49, no. 4, Apr. 1955

no.1, Jan Monthly List of East European Accessions (EEAI) E.C. Vol. 9/1960 Uncl.

GORBACEVSKI, V.			_		
"New half trailer tura-Industria Le	for lumber hauling mmului Si A Hartie	g", p. 89 (Anale bl., Series a II	le Romano-Son	detice. Seria : 15, Sept/Oct.	311vicul- 1952
Bucuresti)					
Sa. 15-413-	Best Buro	pean Vol.	2, No 9	o Sentember	1953, U ncl.
SOI WOUTHLY	List of ResidenAc	:cessions,/Libra	ry or congres	e, nebrener	1777) WICI.
	g Navi a wakasa in ing angan 198		en i namen en en en en		

Improving the quality of rubber tires in the Kirov Rubber Tire Plant. Kauch. i rez. 22 no.11:47-49 N '63. (MIRA 17:2)
1. Kirovskiy shinnyy zavod.



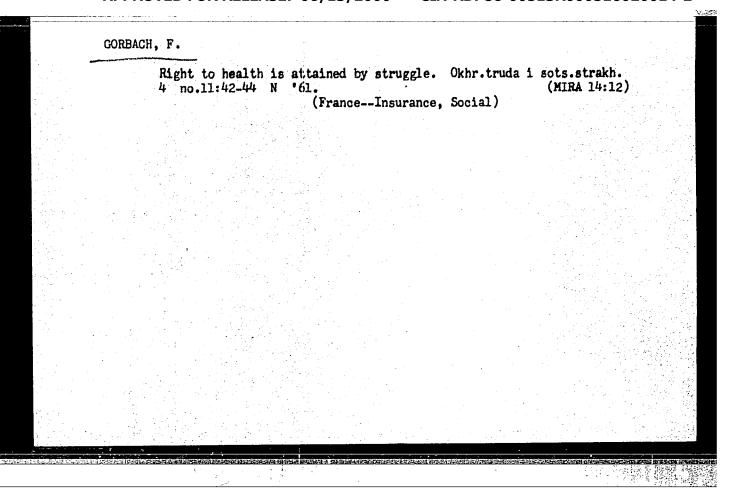
GORBACH, B.M., gornyy inzh.; KRUFPA, P.I., gornyy inzh.; MATOV, A.L., gornyy inzh.

Increasing the wear resistance of 1,600 and 2,000 mm wide conveyor belts. Gor.zhur. no.10:46-49 0 164. (MIRA 18:1)

1. Nove-Krivorozhskiy gornoobogatitel nyy kombinat.

Age groups, growth, and time of sexual maturation in Ctenopharyngodon idella (Val.) and Mylopharyngodon piceus (Rich.) in the basin of the Amur River. Vop. ikht. 1 no. 1:119-126 '61. (MIRA 14:5) 1. Laboratoriya presnovodnykh ryb Amurskogo otdeleniya Tikhookeanskogo nauchno-issledovatel'skogo instituta rybnogo khozyaystva i okeanografii, g. Khabarovsk. (Amur Valley—Carp)

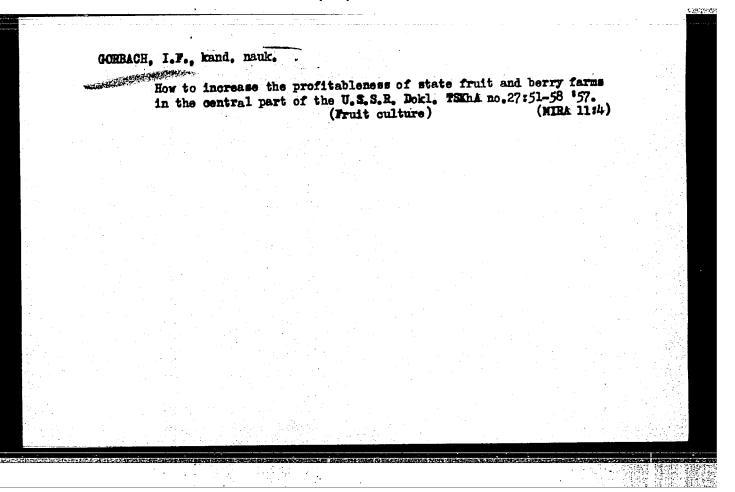
Age groups, growth fishes of the Amur	, and maturation rate of se River. Izv. TINRO 48:164-	ome predatory 178 ¹ 62. (MIRA 16:4)	
	mur River—Fishes)		
	The Mark Brown and the Committee of the		
	$oldsymbol{h}_{ij}^{(i)}$ is the second constant i		
		**	
	in a strange parties of the strange		



SHEVCHENKO, L.F.; PYASETSKAYA, Ye.N.; GORBACH, G.I.; SHUL'GA, O.Ye.

Study of outbreaks of epidemic hepatitis in two villages of Chernogov Province. Zhur.mikrobiol.,epid.i immun. 40 no.12:114 D '63. (MIRA 17:12)

1. Iz Kiyevskogo instituta epidemiologii i mikrobiologii i Chernigovskoy oblastnoy sanitarno-epidemiologicheskoy stantsii.

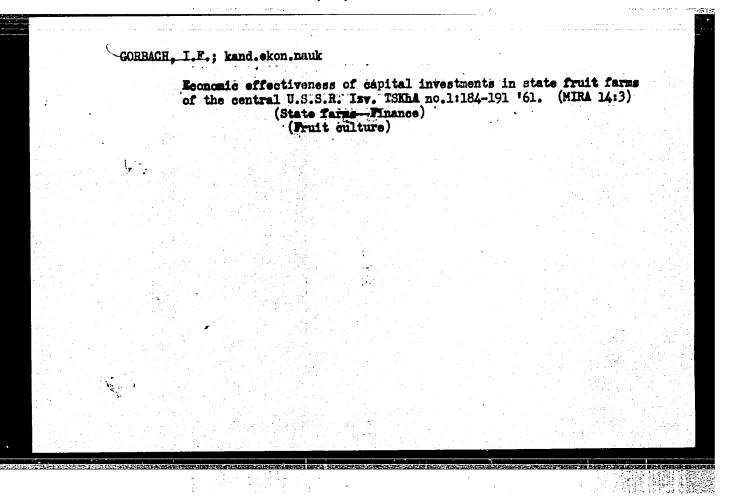


GORRACH, I.F., kand. ekon. nauk.

Economic aspects and organization of state fruit and berry farms in central regions of the U.S.S.R. [with summary in Inglish], Izv.

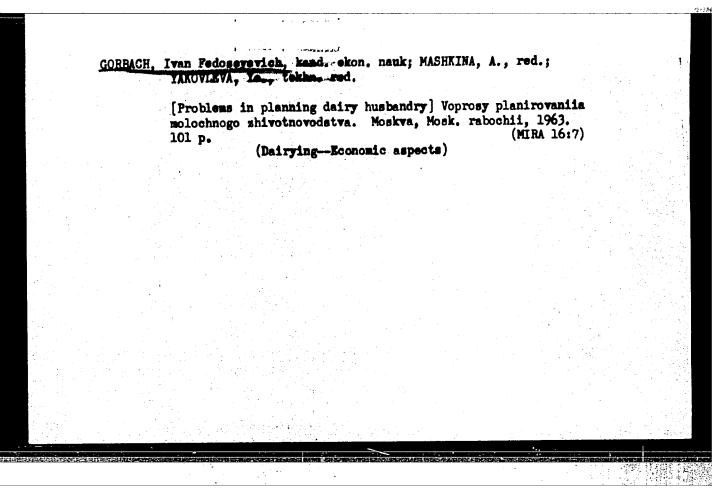
TENA no.2:229-237 * 58. (MIRA 11:6)

(Fruit culture)



	leonomic farms of	effectiveness of capital investments in state fruit the central U.S.S.R. Izv. TSKha. no.1:184-191 [61. (MIRA 14:3)	
		(State farms-Finance)(Fruit culture)	
÷ .			
	Althoration (그렇지 않는 하는 사람들이 가는 사람들이 되었다.	

		그 그 기계 되었는데 가게 되었다.	
		그리고 함께 하는 그는 이 사람들이 되었다.	
		실험, 등 가는 경험에는 이렇게 하고 그 그 그 그 그 이 그리고 있다. 그 사람은	트 급하.
		기가 가장 물었다. 이 그는 아이를 보고 있다는 모든 이 그리는 모든 것들이 없다.	



GORBACH, K.D., insh.; LEDNEY, G.S., insh.; ZAROVNTY, V.M., tekhnik

Dissel locomotives are brought into the depot by low voltage current. Blek.i tepl.tiaga 3 no.7:23 J1 '59.

(Blectric railroads--Repair shops)

(Blectric railroads--Repair shops)

AVERBUKH, A.G.; ZAYTSEV, V.I.; SUMERINA, E.P.; GORBACH, L.M.

New data on the geology of southern Moldavia. Sov. geol. 8 no.5:112-113

My '65. (MIRA 18:7)

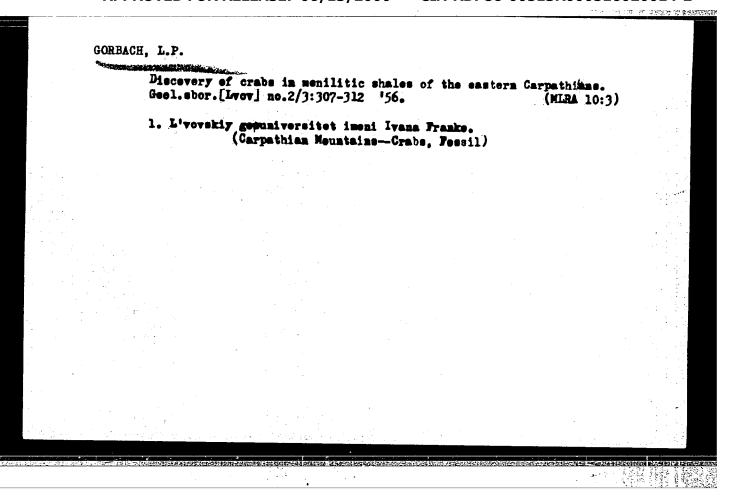
APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516020014-2"

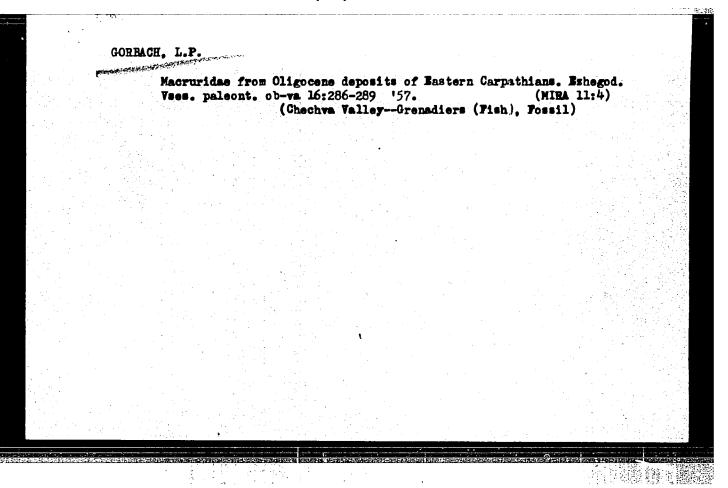
VYALOV, O.S., professor; VENGLINSKIY, I.V., nauchnyy sotrudnik; GOLEV, B.T., assistent; GORETSKIY, V.A., dotsent; GORRACH, L.P., aspirant; KUDRIN, L.H., assistent; GEL'FAND, M.Kh., redaktor izdatel'stva; MALYAVKO, A.V., tekhnicheskiy redaktor

[Geological museum of the Iv.Franko State University of Lvov; a grief handbook] Geologicheskii musei L'vovskogo gosudarstvennogo universiteta im. Iv.Franko; kratkii putevoditel'. [L'vov] 1956.
29 p. (MLBA 9:8)

1. Lvov. Universytet.
(Lvov University)

(Lvov--Geological museums)





	Some pelagic fishes from the Carpathian Oligocene Paleont.sbor. [Lvov] no.1:131-136 '61.	e. (MIRA 15:	:9)	
• •	1. Institut mimeral nykh resursov AN UkrSSR, Sin (Carpathian Mountains—Fishes, Foss	mferopol		

Fossil fish of the Strenoptychidae family from menilite shales in the Carpathians. Paleont.zhur. no.4:168-170 '61. (MIRA 15:3) 1. Institut mineral'rykh resursov AN VSSR. (Carpathian Mountain region--Fishes, Fossil)

GORBACH, L.P.

Fossil fishes in the upper horizon of the lower Menilite series of the Chechya River in the Eastern Carpathians. Geol.sbor.
[Lvov] no.7/8:421-426 !61. (MIRA 14:12)

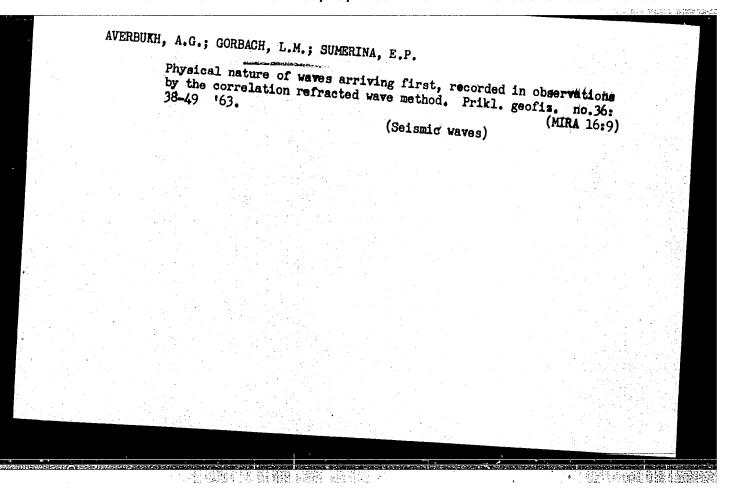
1. Institut mineralinykh resursov AN USSR, Simferepoli. (Carpathian Mountain region—Fishes, Fossil)

Venericardia excellens sp.nov. from the Lower Palaecone Grimea. Paleont.zhur. no.1:160-163 '62.	in the (MIRA 15:3)	
1. Institut mineral'nykh resursov AN USSR, Simferopol'. (CrimeaMollusks, Fossil)		

GORBACH, L.P.; PEDAN, L.S.

Siliceous septeria from a band of kill in the Upper Cretaceous sediments of the Crimea. Min. sbor. no.17:75-81 '63. (MIRA 17:11)

1. Institut mineral'nykh resursov AN UkrStR, Simferopol'.



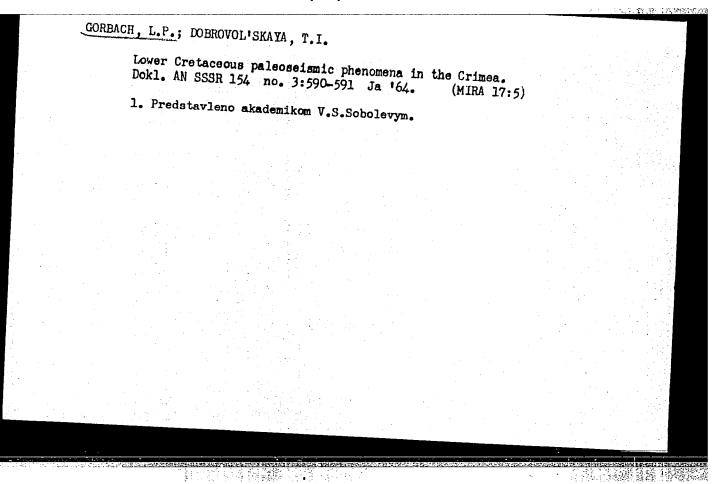
VYALCY, C.S., GORBACH, L.P. [Horbach, L.P.]; DOEROVOL'SKAYA, T.I.

[Dobrovol's ka, T.I.]

Fossil star-shaped prints of the activity of marine organisms in the eastern Crimea. Gool. zhur. 24 no.4:92-97 '64.

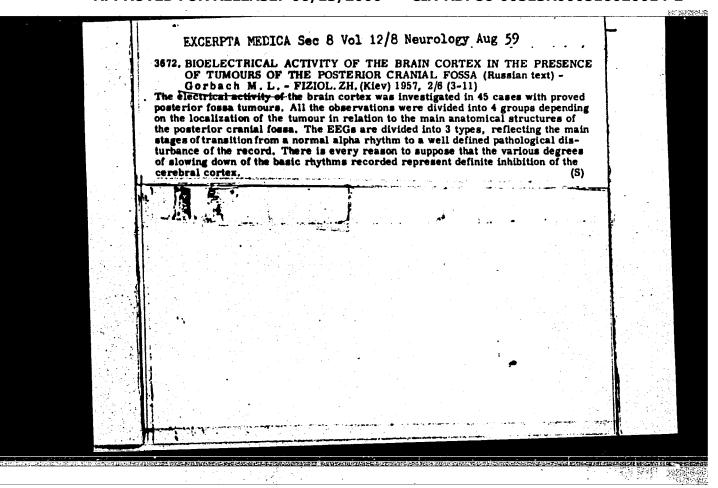
1. Institut geologii i geokhimii goryuchikh iskopayemykh All

UkrSSR.



VYALOV, O.B.; GORBACH, L.P.

Allowerphic sculpture of the Lower Paleocene cysters of Inkerman (Crimea). Vest. L'vov. un. Sor. geol. no.2:25-31 '64. (MIRA 19:1)



MAKARCHENKO, A.F. [Makarchenko, C.F.]; GORBACH, M.L. [Horbach, M.L.]

Some philosophical problems of the relation between physiology and cybernatics. Fisiol. shur. [Ukr.] 9 no.61707-715 N-D '63. (MIRA 17:8)

1. Institut fisiologii im. Bogomol'tsa AN UkrSSR, Kiyev.

GORBACH, M.M.

S/021/60/000/008/003/011 D210/D305

AUTHOR:

Horbach, M.M.

TITLE:

On the approximation of periodic functions of two variables by Fourier sums

PERIODICAL: Akademiya nauk Ukrayins'koyi RSR. Dopovidi, no. 8, 1960, 1016 - 1018

TEXT: The aim of the paper is to give the asymptotic approximation for functions belonging to a class $K_1K_2W(r,1)$ $H(\alpha,\beta)$. Definition: Function f(x, y) belongs to the class $K_1K_2^{(r,1)}$ $H(\alpha,\beta)$. If it is periodic (period - 2a) with respect to each variable and satisfies the following conditions for $r,l \ge 0$, $l \ge r$, $0 < \alpha$, $\beta < 1$

 $|\varphi_{1}(x_{3}, y_{2}) - \varphi_{1}(x_{1}, y_{1})| < K_{1}|x_{2} - x_{1}|^{\alpha} + K_{2}|y_{3} - y_{1}|^{\beta},$ $|\varphi_{2}(x_{3}, 0) - \varphi_{3}(x_{1}, 0)| < K_{1}|x_{3} - x_{1}|^{\alpha},$ (1)

Card 1/5

 $\varphi_1(x,y) = \frac{\partial^i f}{\partial y^i}, \ \varphi_0(x,y) = \frac{\partial^i f}{\partial x^i}.$

S/021/60/000/008/003/011 D210/D305

On the approximation of ...

Let,

$$E_{mn} = \sup_{f \in K_1 K_2 W} (r, t)_{H^{(a, \beta)}} \max_{(x, y)} |f(x, y) - S_{mn}(f, x, y)|,$$

where $S_{mn}(f, x, y)$ - is the Fourier sum of order (mn) of function f(x, y) f(x) $K_1K_2^{(r, \ell)}$ $H^{(\alpha, \beta)}$. Theorem 1: For any $K_1K_2^{(r, \ell)}$ $H^{(\alpha, \beta)}$ the asymptotic equality

$$E_{mn} = \frac{K_1 2^{n+1}}{\pi^2} \frac{\ln n}{n'^{+n}} \int_{0}^{\frac{\pi}{2}} u^n \sin u du + \frac{8}{\pi^4} \frac{\ln n \ln m}{m^l} \int_{0}^{\frac{\pi}{2}} \int_{0}^{\frac{\pi}{2}} \times \\ \times \min \left[K_1 \left(\frac{2u}{n} \right)^n, K_2 \left(\frac{2v}{m} \right)^n \right] \sin u \sin v du dv + \rho_{mn}, \\ : \rho_{mn} = 0 \left[\frac{\ln n + \ln m}{m^l} \left(\frac{1}{n^n} + \frac{1}{m^n} \right) \right] + 0 \left(\frac{1}{n'^{+n}} + \frac{1}{m^{l+\frac{n}{2}}} \right),$$

Card 2/5